CALL FOR PAPERS

Special Section on Mathematical Systems Science and its Applications

The IEICE (Institute of Electronics, Information and Communication Engineers, Japan) Transactions on Fundamentals of Electronics, Communications and Computer Sciences (published in February 2018).


The IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences announce a forthcoming Special Section on Mathematical Systems Science and its Applications to be published in February 2018.

Mathematical systems science is the study of design, analysis, verification, and control based on mathematical models and it is applicable in many engineering and scientific research areas including emergent fields such as cyber-physical systems, man-machine systems, open systems science, and systems biology. The aim of this special section is to clarify the state of art of research on mathematical systems science and to promote the future research.

The topics of interest within the scope of this special section include the following areas:
- System theory: Petri net, concurrent systems, discrete event systems, hybrid systems
- Formal methods for verification and design: model checking, proof system, scheduling, supervisory control
- Cyber-physical systems: embedded systems, real-time systems
- Mathematical approaches to human factor: modeling and analysis of human behaviors, business process, service science
- Novel mathematical methods: open systems science, systems biology
- Applications and case studies: multi-car elevator systems, manufacturing systems, transportation systems, enterprise information systems
We also welcome letter submissions on industrial case studies.

For the submission to this Special Section, at least one author of each paper must be a member of the IEICE. Invited papers are an exception. We strongly recommend that all authors apply for IEICE membership. For membership applications, please visit the web page: http://www.ieice.org/eng/join_ieice/index.html

The submitted paper will be reviewed by reviewers according to the ordinary rules of the Transaction Editorial Committee. It is recommended that the lengths of a paper and a letter for this special section are within 8 and 2 printed pages, respectively. Please consult the Information for Authors that is available at the web page: http://www.ieice.org/eng/shiori/mokuji_ess.html

This special section will accept papers only by electronic submission. Please submit a paper using the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx. Authors should choose the “[Special-MA] Mathematical Systems Science and its Applications” as a “Journal/Section” on the online screen. Do not choose “[Regular-EA]”.

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The deadline for the paper submission is April 30, 2017.

Please note that the term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than 60 days because of the tight schedule for review. The final editorial decision for acceptance would be informed to the authors by October 2017. Authors must agree to the "Copyright Transfer and Page Charge Agreement" via electronic submission. If accepted, all authors should pay the page charges covering partial cost of publication.

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